

PRODUCT DATA SHEET

SikaPlast®-3846 PH

(formerly MasterPolyheed® 3846)

Water reducing superplasticizer for production of high quality day-to-day ready-mix concrete

DESCRIPTION

SikaPlast®-3846 PH is an economical admixture based on modified polycarboxylic ether. The product has been primarily developed for applications in ready mix and site-batched concrete.

SikaPlast®-3846 PH is specially designed to allow for mid to high range mix water reduction while maintaining flexible degrees of slump retention without retardation.

SikaPlast®-3846 PH is free of chloride & low alkali. It is compatible with all types of cements.

SikaPlast®-3846 PH admixture provides the concrete producer with the ability to immediately create the optimal admixture system for changing and fluctuating regional raw materials, environmental conditions and project requirements.

SikaPlast®-3846 PH admixture gives the concrete producer the ability to consistently produce and deliver quality day-to-day concrete.

USES

- Ready mixed concrete
- Pumped concrete
- High workability concrete without segregation or bleeding.
- Improved durability concrete.
- Congested/complex reinforced sections.
- Concrete mixes utilizing supplementary cementitious materials.

CHARACTERISTICS / ADVANTAGES

- Good dispersion even in mixes with high fines
- Improved workability for longer periods
- Lower pumping pressure
- Resistance to segregation even at greater workability
- Good mid-range slump retention
- Reduced water content for a given workability.
- Easier pumpability and place ability.
- Higher ultimate strengths
- Greater ease in finishing concrete

PRODUCT INFORMATION

Packaging	SikaPlast®-3846 PH is available in 1000 litre IBC's.
Shelf Life	The shelf life is 12 months when stored correctly.
Storage Conditions	SikaPlast®-3846 PH should be stored out of direct sunlight and protected from extremes of temperature.
Appearance / Colour	Brownish Liquid
Density	1.080 - 1.120
pH-Value	5.0 – 7.0
Total Chloride Ion Content	“chloride-free” to EN 934-2

APPLICATION INFORMATION

Recommended Dosage

The normally recommended dosage rate of SikaPlast®-3846 PH is: **0.6 to 1.5 litre per 100kg** of total cementitious material.

Other dosages may be recommended in special cases according to the specific site conditions. In this case, please consult our Technical Services Department for advice.

Dispensing

SikaPlast®-3846 PH is a ready-to-use admixture to be added to the concrete as a separate component.

Optimal result is obtained if SikaPlast®-3846 PH is poured into the concrete mix right after the addition of the first 80% of the mixing water, i.e., when all solids are wetted.

Avoid adding the admixture to the dry aggregates.

SYSTEM INFORMATION

Compatibility

SikaPlast®-3846 PH is not compatible with Sikament RB superplasticizers.

SikaPlast®-3846 PH is suitable for mixes containing:

- Microsilica (Silica Fume)
- Fly Ash (PFA)
- GGBS (ground granulated blast furnace slag)

The occurrence of a surface layer with SikaPlast®-3846 PH is normal and will have no effect on the performance of the product.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY HEALTH AND SAFETY

No special requirements must be observed during use. Protection gloves and glasses are however recommended. SikaPlast®-3846 PH is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

SikaPlast®-3846 PH contains no hazardous substances requiring labelling. For further information refer to the Material Safety Data Sheet (SDS).

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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